BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Name of Work:-Detailed Estime for Maintenance & Repairs to Existing Park Lightings,etc to the existing Installation in Park at Yelahanka Constituency in Ward no 03.

Ward No. 04 **Estimate No:-** 67 **For Rs.** **500000.00**

Sl No	SR Page & SL No	Description Of Work	Unit	Qty	Rate	Amount
1	27/4.36 .1	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II. LED Streetlight 24watts	Nos	30	6912.00	207360.00
2	108 /17.1.2	Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe	Nos	30	893.00	26790.00
3	15 Datarat e	Transporting and erecting of 3.5 Mtrs long Swged Tubelor park poles including Digging of pit 45x45x100cms & providing 1:2:4 concrete of size 35x35x130 cms Including coping as per the detaild enclosed civil estimate & drawimg	Nos	5	972.00	4860.00

4	55/7.4.5	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Mtrs	400	140.40	56160.00
5	61/7.8.2	when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In	Mtrs	400	10.80	4320.00
6	62/7.9.1	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	Mtrs	370	78.00	28860.00
7	6/2.6.2	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.b)1.5 sqmm	Mtrs	189	15.90	3005.10
8	6.12.4	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Nos	5	9915.00	49575.00
9	47/6.16	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and Complete wiring as required confirming IEC 60898. 6) 40-63 Amps TPN	Nos	10	1936.00	19360.00
10	6/2.6.7	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	Mtrs	20	132.00	2640.00
11	17/3.10	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Mtrs	24	263.00	6312.00
12	49/6.40.2	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Sqcm	125000	0.33	41250.00
13	46/6.13.A.1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.	Nos	5	4044.00	20220.00

14	45/6.7.3	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps	Nos	14	234.00	3276.00
15	9 32 / 9	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A, PWD Elec SR 2006-07.	Nos	5	4200.00	21000.00
16	4.1KP WD2015-16	KSRB 4-1 .1: Providing and laying in position plain cement concrete of cum 5,004.00 mix 1 :2:4 with ope cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates O.B7Bcum and fine aggregates @0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials,labour, HOM of machinery, curing complete as per specifications Specification No. KBS 4.1, 4.2	Cumt	1	5004.00	5004.00
		Mislenious				7.90
		Total Rs				**500000.00**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2014-15 , BESCOM SR and Approved Rates.

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction to Rs. 5.00 LAKHS
Rupees FIVE LAKHS ONLY
is accorded P0298 M and R To Electrical Installations in park and Garden Play Ground Burial Grounds
Registered as EE No. 50/2018-19 Subject to conditions contained in enclosed memo No. BBMP/EE/ELE/42/AS/50/2018-19 Dt 18.02.2019

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 5.00 LAKHS
Rupees FIVE LAKHS ONLY
Under P0298 M. and R To Electrical Installations in park and Gardens
Registered as EE ( ) No. 44/2018-19 9 9
Subject to conditions contained in enclosed memo EE ( ) No. BBMP/EE/ELE/42/AS/50/18-19 Dt. 18.02.2019
Estimate A/ Sanctioned BBMP/EE/ELE/42/TS/44/2018-19 Dated 18.02.2019 Rs.

Executive Engineer